

In the year 2013, the Industry Applications Kolkata Chapter (IAS Kolkata) has organized five technical lecture meetings and has co-hosted a training course on ‘Power Electronics Applications in Industries’. The details of the events are summarized below:

<u>Sl. No.</u>	<u>Speaker &amp; Affiliation</u>	<u>Date</u>	<u>Topic</u>	<u>Venue</u>	<u>No. of Attendees</u>
1.	<b>Mr. Varunesh Kumar,</b> Chairman and Managing Director, M/S Veeral Controls, Gandhinagar, Gujarat, India.	21 <sup>st</sup> January, 2013	1. Novel Scheme for a Fast High Voltage Power Supply 2. Engineering Challenges in High Current Fast DC power supplies	Dept. of Electrical Engineering, Bengal Engg. & Sc. University, Shibpur, Howrah-711103.	33 (3 IEEE members)
2.	<b>Mr. Tapan K. Manna,</b> Senior Electrical Engineer, Transmission & Distribution, Burns & McDonnell, USA.	18 <sup>th</sup> February, 2013	HVDC Growth in the United States of America	Dept. of Electrical Engineering, Bengal Engg. & Sc. University, Shibpur, Howrah-711103.	23 (4 IEEE members)
3.	<b>Mr. Rajesh Ghosh,</b> American Power Conversion (APC) by Schneider Electric, India.	5 <sup>th</sup> April, 2013	New Challenges in Power Electronic Converters for UPS Systems	Dept. of Electrical Engineering, Jadavpur University, Kolkata, India-700032.	31 (3 IEEE members)
4.	<b>Mr. Sanjoy Mukherjee,</b> Calcutta Electric Supply Corporation (CESC) Ltd., Kolkata, India.	7 <sup>th</sup> August, 2013	Issues and Challenges in Managing Thermal Power Projects in India	Dept. of Electrical Engineering, Bengal Engg. & Sc. University, Shibpur, Howrah-711103.	68 (9 IEEE members)
5.	<b>Mr. Rajesh Ghosh,</b> American Power Conversion (APC) by Schneider Electric, India.	18 <sup>th</sup> September, 2013	High Switching Frequency Device Technology (GaN HEMT), Applications and Challenges	Dept. of Electrical Engineering, Bengal Engg. & Sc. University, Shibpur, Howrah-711103.	48 (6 IEEE members)

Additionally, the Chapter has organized a short term training course as follows:

<u>Sl. No.</u>	<u>Name of the Programme</u>	<u>Duration</u>	<u>Topics covered</u>	<u>Venue</u>	<u>No. of Attendees</u>
1.	Power Electronics Applications in the Industry	4 <sup>th</sup> – 6 <sup>th</sup> January, 2013	Theoretical lectures on AC Drives Applications in Industries, Reference Frame Theory, DQ theory of AC machines, Concept of Space Phasors, Vector Control of Induction Motors, Brushless DC Motor Drives, 3-phase Distribution STATCOM and Active Front-End Converters, PE Converters for Induction Heating AND practical hands on demonstration sessions on simulations and/or experiments on above systems. Faculties from Bengal Engineering and Science University and R&D personnels from a Kolkata-based Power Electronics intensive industry house were the resource persons.	Dept. of Electrical Engineering, Bengal Engg. & Sc. University, Shibpur, Howrah-711103.	14 regular professionals from industry and academic organizations and 20 students

**Some Photographs of the above-mentioned events with captions:**



Dr. Tapan K. Manna delivering technical lecture dated 18<sup>th</sup> Feb. 2013



Dr. Rajesh Ghosh, speaker of the technical lecture programme dated 5<sup>th</sup> April 2013 being presented a certificate by Prof. Sujit Biswas, IEEE-IAS Kolkata Chairman.



A section of audience attending technical lecture dated 7<sup>th</sup> August 2013 by Mr. Sanjoy Mukherjee, CESC Ltd.



Prof. Ajit K. Chattopadhyay, Fellow IEEE, delivering lecture in the short term training course on 'Power Electronics Applications in the Industry' during January 4-6, 2013.



A glimpse of participants of the short term training course on 'Power Electronics Applications in the Industry', during 4<sup>th</sup> – 6<sup>th</sup> January 2013.

### **Current Membership status:**

As on 25<sup>th</sup> December 2013, IEEE IAS Kolkata has 34 members.

**Current Office bearers:**

The main office bearers of IEEE IAS Kolkata in 2013 are:

<b>Sl. No.</b>	<b>Position</b>	<b>Name</b>
1.	Chairman	Prof. Sujit Biswas, Jadavpur University
2.	Vice-Chairman	Mr. Manish Sinha, M/S M. N. Dastur & Co. Ltd.
3.	Secretary	Dr. Kaushik Mukherjee, Bengal Engg. & Sc. University
4.	Treasurer	Prof. Debjani Ganguly, Bengal Engg. & Sc. University

Report compiled by: Dr. Kaushik Mukherjee, Secretary, IEEE-IAS Kolkata, 25<sup>th</sup> December 2013.